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Effects of narcissism, leisure boredom, and gratifications sought on user-generated content among net-generation users

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ABSTRACT

This research identifies the gratifications sought by the Net-generation when producing user-generated content (UGC) on the internet. Members of the Net-generation want to vent negative feelings, show affection to their friends and relatives, be involved in others' lives, and fulfill their need to be recognized. These gratifications were all found to be significantly associated with the users' various levels of participation in UGC (e.g., Facebook, YouTube, blogs, online forums, etc.). What's more, narcissism was predictive of content generation in social networking sites, blogs, and personal webpage, while leisure boredom was significantly linked to expressing views in forums, updating personal website, and participating in consumer reviews. In particular, the results showed that Net-geners who encountered leisure boredom had a higher tendency to seek interaction with friends online. Implications of findings are discussed.

Key words: Narcissism; leisure boredom; user-generated content; uses and gratifications

1. Introduction

The internet has become an integral part of the lives of most young adults. It is flourishing even more in the Web 2.0 era. Users are no longer simply passive recipients of web contents; they can also be contributors. A number of sites, such as Facebook and MySpace, invite users all around the globe to share experiences and creative works. Such content contributed by users is called user-generated content (UGC). In this study, UGC includes personal contents produced by end-users in multiple social media platforms, such as Facebook, YouTube, MySpace, Twitter, blogs, and online forums. This content is unrelated to ones' professional work.

UGC on the internet is not merely used for entertainment or passing time, but may also lead to citizen journalism (Gillmor, 2004) and social movements (Birdsall, 2007). UGCs on social media and various online applications are popular among the "Net-generation," that is, those who were born between the late seventies and mid-nineties (Tapscott, 2009).

Members of the Net-generation (Net-geners), are also called digital natives (Prensky, 2001), Generation Y (McCrindle, 2002), Millennials (Howe & Strauss, 1992), and even the Post 80s in China. They are the first generation whose experiences, since their formative years, have been shaped by digital media. Hence, it is assumed that these people have unique attitudes towards technology (Kennedy, Dalgarno, Gray, Judd, Waycott, Bennett, Maton, Krause, Bishop, Chang, & Churchward, 2007). Leung (2003) suggested that attitudes and interests among Net-geners are diverse, yet they have the same deeply held values. They believe that

they have equal opportunities to access information and are confident in their innovativeness and openness to the outside world. In fact, Net-geners actively join discussions on social issues by generating UGC on the internet. In some countries, such discussions have initiated and consolidated opposition to government policies.

Employing the uses and gratifications perspective, past studies have examined Net-geners' motivations in their use of the internet; however, the UGC production behavior of Net-geners has not yet been thoroughly explored (Kennedy et al., 2007; Leung, 2003). Being technologically savvy, Net-geners produce immeasurable amounts of content daily using social media. However, the extent to which how personality traits (such as narcissism and leisure boredom) and their gratifications sought affecting their content generation online are largely unknown.

2. Theories and hypotheses

2.1 Characteristics of the Net-generation

Tapscott (2009) identified Net-geners as youths who adapt to new media and are outspoken on the net. They are willing to take the initiative to help their society transform into a more tolerant and open one (Tulgan & Martin, 2001). Net-geners' enthusiasm for the internet is driven by various motivations. Previous research has identified "pleasure of control" and "fluidity of identity" as two properties that seduce Net-geners to the internet. Net-geners are "emotionally open on the net"; they like to share their emotions with others

(Leung, 2003; Oblinger & Oblinger, 2005).

The emotions shown by Net-geners on the internet are diverse. Members of the Net-generation dare to speak out on that with which they are not content with. Net-geners share their feelings and encourage online discussion. For example, users are keen to vent their negative feelings on consumer review sites (Hennig-Thurau, Gwinner, Walsh & Gremler, 2004). Politically, Tapsoctt (2009) noted that Net-geners might have negative views on current regimes and might oppose society's conservative values. They want to "shake it up" by being outspoken on the internet, as well as collaborating with politicians. Net-geners use technology as a means to connect with friends in their real life. (Howe & Strauss, 2000) Interactions between Net-geners and their friends can be characterized as encouraging, thanks-giving, and opinion-sharing.

2.2 Gratifications from generating content online

The users' decision making process in selecting media has been one of the major topics in technology development (Stafford, Stafford, & Schkade, 2004). The uses and gratifications (U&G) approach studies the underlying motivations and goals of an audience as it engages in various forms of media (Leung, 2009). U&G assumes that a particular audience actively chooses mass media to fulfill its own needs and that the process is goal-directed (Katz & Blumler 1974). Rosengren (1976) concluded that users' needs are based on their social and psychological origins. If their expectations on the media grow, their engagement

with the media is affected. After using the media, gratifications, expected or unexpected, are obtained. Past research has identified two major forms of media gratifications: content gratifications and process gratifications (Cutler & Danowski, 1980; Stafford & Stafford, 1996).

As the internet is media-like in nature, theorists believe that the U&G perspective is suitable for internet studies (Johnson & Kaye, 2003; Lin, 1999; Weiss, 2001). Ruggiero (2000) suggested that U&G studies regained their significance after computer-mediated communication (CMC) became a popular area of research because technologies provide people with a huge range of media choices; hence, the motivations and satisfactions obtained were more crucial in the analysis of audiences. Aside from those similar to traditional media, users may obtain newly identified gratifications such as personal involvement and relationship bridging and bonding from the internet (Eighmey and McCord, 1998).

Past research on internet use has studied gratifications obtained from the internet in general (Papacharissi & Rubin 2000) and from specific applications, including e-mail (Dimmick, Kline & Stafford, 2000), ICQ (Leung, 2001), social networking sites (Dunne, Lawlor & Rowley, 2010), computer-based voice over Internet protocol (VoIP) phone service (Park, 2010), and online community (Lampe, Wash, Velasquez & Ozkaya, 2010). However, few studies have explored the motivations and gratifications obtained from generating online content. Leung (2009) found that social needs, cognitive needs, and entertainment needs

motivate users to produce online content. His study also reasserts that psychological empowerment can be enhanced by one's degree of online content generation and by one's attitude and behavior in civic engagement offline. Likewise, Hess, Rohrmeier, and Stoeckl (2007) revealed that video-bloggers are keen on having fun and passing time, while web-bloggers are keen on disseminating information.

The pursuit of personal identity and the need for recognition have been identified as gratifications obtained from internet use (Papacharissi & Rubin, 2000) and from generating content online (Leung, 2009). Park, Kee, and Valenzuela (2009) claimed that status-seeking is a primary need for those using social networking sites. Grace-Farfaglia, Dekkers, Sundararajan, Peters, and Park (2006) also identified social support, fame, and respect as the gratifications obtained by web users in different countries.

Each form of media offers a unique combination of content, typical attributes, and exposure situations. Therefore, each medium has a unique ability to satisfy users' various needs (Katz, Blumler & Gurevitch, 1973). However, U&G studies on Net-geners' online UGC production behavior are still scarce; this research aims to fill that gap. Based on the uses and gratifications framework, this exploratory research extends previous findings and poses the following research question:

RQ₁: What motivates Net-geners to produce content online?

H₁: The more gratifying that Net-geners find in online content generation

experiences, the more they will participate in user-generated content activities.

2.3 Leisure boredom

Boredom is a fleeting emotional state in which someone lacks interest and is unable to concentrate (Fisher, 1993). In leisure time, if the time is not optimally spent, people may experience leisure boredom (Iso-Ahola, 1980). Net-geners encounter boredom easily and need to participate in various activities in order to prevent or overcome it (Harrison, 2005). Past research found that people who encounter higher levels of leisure boredom are more likely to be addicted to mobile phones (Leung, 2008). Lin, Lin, and Wu (2009) discovered that leisure boredom is a possible reason for adolescents' internet addictions; adolescents fond of family and outdoor leisure activities reported lower levels of internet addiction.

Studies on the relationship between leisure boredom and user-generated content are rare. As many Net-geners may now contribute content to Facebook, YouTube, Twitter, blogs, and online forums during their leisure time, it is increasingly pressing to examine the effect of leisure boredom on their participation in user-generated content online. Thus, we hypothesize that:

H_{2a}: Subjects who score high on levels of leisure boredom will report a higher frequency of producing online content.

H_{2b}: Subjects who score high on levels of leisure boredom will find online content generation experiences more gratifying.

2.4 Narcissism

Narcissism is the fascination with oneself. Freud (1914) explained that narcissism is derived from the human instinct for “self-preservation.” Foster and Campbell (2007) suggested that narcissism is part of social psychology. They found that all people are narcissistic in some way. Brown, Budzek, and Tamborski (2009) supported that narcissism is dimensional and not categorical, with grandiosity and entitlement as the two most general clusters. Campbell and Foster (2007) conducted a literature review on narcissism and concluded that several of the values of narcissists include: thinking they are better than others; unusually inflated praise of themselves; the belief that they are unique and special; and often selfish and success-oriented.

Some researchers believe that young people are becoming increasingly narcissistic. Twenge, Konrath, Foster, Campbell, and Bushman (2008) conducted a survey among a sample of over 16,000 college students over time and found that recent subjects are more narcissistic than those from 1979. The respondents' mean score in the Narcissism Personality Inventory had increased by .33 standard deviations in 27 years' time. In some ways, narcissism has encouraged online activities. Buffardi and Campbell (2008) found that narcissism predicts higher participation in social networking sites, such as Facebook. The online content generated might reflect the producer's level of narcissism. Thus, we hypothesize that:

H_{3a}: Subjects who are more narcissistic will report a higher frequency of online content production.

H_{3b}: Subjects who are more narcissistic will find online content generation experiences more gratifying.

Furthermore, this exploratory also inquires:

RQ₂: How are gratifications sought from UGC predicted by demographics, leisure boredom, and narcissism among Net-geners?

RQ₃: To what extent can demographics, motives for online content generation, leisure boredom, and narcissism in Net-geners predict their participation in producing online content?

3. Methodology

3.1 Data collection and sampling

Data for this exploratory study were gathered using an online survey on www.my3q.com with a snowball sampling of 344 Net-geners, aged 13–33 years.¹ The questionnaire was pilot tested prior to the actual fieldwork. The actual questionnaire was posted online between March and April, 2010. Among the respondents, 47.4% were male, and 63.7 % had a median monthly personal income of under US\$1 290. Regarding education, 1.5% of the respondents had completed elementary school, 25% had completed high school,

¹ According to Tapscott (2009). Net-geners were born approximately between the late seventies and mid-nineties.

5.8% had obtained associate degrees, and 67.7% were university graduates or above.

3.2 Measures

3.2.1 Gratifications of internet content generation

In early 2010, a focus group comprised of 12 Net-geners was conducted to assess their gratifications sought in online content generation. Results were combined with similar gratification items found in a number of previous U&G studies, including predictors of internet use (Papacharissi & Rubin, 2000), Net-geners' attributes and internet use (Leung, 2003), online consumer-opinion platforms (Hennig-Thurau et al., 2004), and user-generated content on the internet (Leung, 2009). The final questionnaire consisted of 20 gratification statements. Respondents were asked how much they agreed with the items using a five-point Likert scale with 1 = "strongly disagree" and 5 = "strongly agree."

3.2.2 Leisure boredom

Leisure boredom was measured using a short version of the Leisure Boredom Scale, developed by Iso-Ahola and Weissinger (1987). Five relevant items were extracted from the original 20-item scale, such as "In my leisure, I usually don't like what I'm doing, but I don't know what else to do," and "leisure time activities do not excite me." A five-point Likert scale was used with 1 = "strongly disagree" and 5 = "strongly agree." The Cronbach's alpha was modestly high at .79.

3.2.3 Narcissism

To assess narcissism, an established scale, called Narcissistic Personality Inventory (NPI) was used. Raskin and Hall (1979) developed NPI in order to measure differences in narcissism among individual who are not narcissistic. Raskin and Terry (1988) then discovered that the original 40-item inventory could be divided into seven components. However, to make the questionnaire more manageable, only five items were extracted from the inventory in this research with statements such as “I really like to be the center of attention” and “I want to amount to something in the eyes of the world.” A five-point Likert scale was also used with 1 = “strongly disagree” and 5 = “strongly agree.” These items yielded a reasonably high reliability alpha of .78.

3.2.4 User-generated content

Respondents were then asked about their perceived level of participation in publishing various forms of user-generated content online. The six main forms of UGC included: social networking sites, video sites, blogs, personal web-pages, forums, and consumer reviews. Respondents self-reported their perceptions in their level in content generation online on a five-point scale with 1 = “never,” 2 = “seldom,” 3 = “neutral,” 4 = “often,” and 5 = “very often.” Table 1 shows that content generation on social networking sites is the most popular (with a mean score of 3.74), video sites came second ($M = 2.88$), blogging came third ($M = 2.75$), and personal web-pages ($M = 2.06$) were the least popular.

(* Insert Table 1 about here *)

3.2.5 Particiaption in overall online content generation

Respondents were asked to cumulatively estimate the amount of time they participated in content generation online on an average day in the previous week (in minutes).

3.2.6 Demographics

Personal data, such as gender, education, and personal income were solicited.

4. Results

4.1 The motives of Net-geners in generating online contents

To answer the first research question, a principal components factor analysis with varimax rotation was run to determine the potential groupings of 20 motivation items on UGC among the Net-geners. With low communalities, two items were excluded from the analysis. The remaining 18 items yielded four factors with an eigenvalue greater than 1.0, and explained 61.02% of the variance (see Table 2).

The first factor was “affection,” which showed how Net-geners’ online content generation was motivated by the intention to encourage others, help others, disclose their own feelings, and thank others. The Cronbach’s reliability alpha of the five items was high at .90.

The second factor was “recognition needs” (alpha = .83). This factor consisted of five statements reflecting that, in producing content online, Net-geners hoped to establish a personal identity, build confidence, promote or publicize expertise, and gain respect.

“Inclusion” was the third factor ($\alpha = .76$), revealing that Net-geners generated online content because they needed to talk or be with someone, needed to talk about their problems, and needed to feel involved with other people’s affairs. The last factor was “venting negative feelings” ($\alpha = .74$), articulating how respondents saw producing content online as an opportunity to deal with their negative feelings, to voice discontent, to fight injustice, and to vent anger.

In sum, the four factors are conceptually consistent with the theoretical expectations of the previous studies in our literature review. Generally, Net-geners are concerned about their friends and they like to show affection to others. In addition, Net-geners want to be involved in others’ lives and are emotionally open. They are in need of recognition and hope to gain confidence, respect, and support, and they find promoting their own expertise satisfying. Net-geners do not hide their negative feelings; they are willing to express them as a method of relief.

(* Insert 2 about here *)

4.2 Relating Gratifications to UGC Online

To test H_1 that the more gratifying that Net-geners find online content generation experiences, the more they will participate in user-generated content activities online, a bivariate correlation analysis was run (see Table 3). The results show that affection ($r = .15, p$

$< .01$), recognition needs ($r = .21, p < .001$), inclusion ($r = .25, p < .001$), and venting negative feelings ($r = .22, p < .001$) were significantly associated with overall participation in UGC. Bivariate correlations between gratifications sought and specific UGC platforms also support such results. For example, venting negative feelings was found significantly related to content generation in social networking sites ($r = .13, p < .05$), on video sites ($r = .15, p < .01$), in blogs ($r = .18, p < .001$), on personal web-pages ($r = .18, p < .001$), in forums ($r = .16, p < .01$), and in writing reviews ($r = .16, p < .01$).

(* Insert Table 3 about here *)

Similarly, the results in Table 3 also show that the more Net-geners' motivation for using UGC was inclusion, the more content they would produce on personal web-pages ($r = .21, p < .001$), in forums ($r = .22, p < .001$), and in writing consumer reviews ($r = .16, p < .01$). Likewise, the more they reported UGC was for recognition, the more they would participate in blogs ($r = .17, p < .001$), personal web-pages ($r = .11, p < .05$), and forums ($r = .12, p < .05$). The more they used UGC to show affection, the more active they would be on social networking sites ($r = .26, p < .001$), such as Facebook and MySpace. Therefore, H_1 is fully supported.

4.3 Relating Leisure Boredom to UGC Online and Gratifications

H_{2a} proposed that subjects who score high on level of leisure boredom will report a

higher frequency of online content production. The results in Table 3 show that leisure boredom was not significantly related to the overall amount of UGC participation. However, leisure boredom was found significantly and positively correlated to content generation on personal web-pages ($r = .23, p < .001$), in forums ($r = .22, p < .001$), and in writing consumer reviews ($r = .16, p < .01$), and negatively linked to social networking sites ($r = -.13, p < .05$). Thus, H_{2a} receives only limited support.

H_{2b} hypothesized that subjects who score high on level of leisure boredom will find online content generation experiences more gratifying. The bivariate correlation results in Table 4 show that leisure boredom was significantly and negatively correlated to affection ($r = -.23, p < .001$), but positively related to inclusion ($r = .20, p < .001$). Therefore, H_{2b} is rejected.

(* Insert Table 4 about here *)

4.4 Relating Narcissism to UGC Online and Gratifications

H_{3a} proposed that subjects who are more narcissistic will report a higher frequency of online content production. The results in Table 3 indicate that narcissism was significantly associated with overall participation in UGC ($r = .19, p < .001$). In particular, it is significantly linked to content generation in social networking sites ($r = .17, p < .001$), blogs ($r = .25, p < .001$), personal web-pages ($r = .19, p < .001$), and forums ($r = .12, p < .05$). Thus, H_{3a} is fully

supported.

H_{3b} proposed that subjects who are more narcissistic will find online content generation experiences more gratifying. The correlation results in Table 4 reveal a significant relationship only between narcissism and recognition ($r = .18, p < .001$). Therefore, H_{3b} receives limited support.

4.5 Predicting gratifications sought in UGC

The regression results in Table 4 show that leisure boredom is significantly and negatively linked to affection ($\beta = -.23, p < .001$), but positively related to inclusion ($\beta = .21, p < .001$). This indicates that Net-geners who scored high in leisure boredom would be less likely to show others encouragement and to let others know they care about their feelings. However, leisurely bored individuals would be more gratified if they could talk to or be with someone, talk about their problems, and feel involved with what is going on with other people. Narcissistic individuals were also found significantly associated with recognition seeking ($\beta = .17, p < .001$) and venting negative feelings ($\beta = .11, p < .05$) in UGC. This suggests that narcissistic individuals use UGC to build up confidence, establish personal identity, gain respect and support, promote or publicize their expertise, voice discontent about injustice, and vent anger. Females were gratified more by inclusion ($\beta = -.16, p < .01$), while income and education were not predictors for any of the gratifications. Amount of variances explained ranged from 2% to 6%.

4.6 Predicting the level of UGC generation

The regression results in Table 3 show that all gratifications were significantly linked to overall participation in UGC. Respondents who scored high in inclusion ($\beta = .24, p < .001$), venting negative feelings ($\beta = .20, p < .001$), recognition needs ($\beta = .18, p < .001$), and affection ($\beta = .16, p < .01$) tended to report that they actively participated in UGC. Such results indicate that Net-geners who spend a large amount of time generating online content were motivated by their desire to voice their dissatisfaction, gain recognition from others, and to be involved in their friends' lives.

In particular, while looking into UGC activities in various applications, individuals who were active in social network sites tended to be motivated by affection ($\beta = .22, p < .001$) and venting negative feelings ($\beta = .12, p < .05$), were low in leisure boredom ($\beta = -.13, p < .05$), and high in narcissism ($\beta = .16, p < .01$). Video sites, such as YouTube for viewing or posting videos, tended to be used by individuals with high income ($\beta = .12, p < .05$) and for venting negative feelings ($\beta = .13, p < .05$). Heavy blog users tended to be narcissistic individuals ($\beta = .25, p < .001$) who sought recognition ($\beta = .17, p < .001$) and wanted to vent negative feelings ($\beta = .15, p < .01$). Individuals creating and maintaining a personal webpage tended to be leisurely bored ($\beta = .23, p < .001$), narcissistic ($\beta = .12, p < .05$), and motivated by inclusion ($\beta = .14, p < .01$) and venting negative feelings ($\beta = .14, p < .01$). People who were active in forums tended to be males with a great deal of free leisure time and bored (β

= .22, $p < .001$), motivated to produce UGC by inclusion ($\beta = .21$, $p < .001$), recognition ($\beta = .11$, $p < .05$), and voicing discontent ($\beta = .15$, $p < .01$). Those who liked to be online critics were motivated by venting negative feelings ($\beta = .13$, $p < .01$), inclusion ($\beta = .12$, $p < .05$), and were bored with a great deal of free time ($\beta = .19$, $p < .001$). Amount of variance explained ranged from 1% to 18%.

5. Conclusions

5.1 Conclusions and discussion

This study successfully identified four motivations that influence the generation of online content by Net-geners: affection, recognition needs, inclusion, and venting negative feelings. The results confirm the characterization of Net-geners from previous research: 1) recognition is an important gratification sought in producing UGC online (Leung, 2009); 2) Net-geners connect and socialize with friends via various technologies (Howe & Strauss, 2000); 3) Net-geners do not hesitate to speak out on what they feel is unjust (Tapscott, 2009); and 4) Net-geners are emotionally open on the net (Leung, 2003; Oblinger & Oblinger, 2005).

Apart from the four motivations mentioned above, Net-geners' personality traits are the other determining factors influencing them to produce UGC online. Net-geners who reported higher levels of leisure boredom produced more UGC in some applications, such as personal

web-pages, forums, and consumer reviews. This explains the notion that leisure boredom may be a possible reason for adolescents' internet addictions (Lin, Lin & Wu, 2009). In addition, the result that Net-geners who reported a higher level of leisure boredom were more motivated by inclusion and less for affection may be explained by the fact that leisurely bored Net-geners found UGC an effective means to relief boredom through interpersonal interaction in their preferred social medium, to build friendships or seek companions.

As expected, the level of narcissism predicted the level of participation in UGC, especially in social networking sites. The use of blogs was also predicted by narcissism. Such results indicate that narcissists like to show their talents, gain recognition, and promote their expertise. These findings are in line with Raskin and Terry (1988) showing that narcissism is significantly linked to higher levels of social activity in the online community and more self-promoting content on social networking web pages.

It is interesting to note that Net-geners sought different gratifications from various UGC platforms. In particular, venting negative feelings was the most powerful gratification for content generation on blogs and personal web-pages. This may be because these platforms are less interactive, which allows more room for the users to present themselves in an asynchronous fashion. Some Net-geners may voice their dissatisfaction against social injustice online. Society should pay attention to such voices, because negative views may quickly diffuse through the internet. As many may seek guidance from political information

online, views on the internet may quickly transform into mobilizing power for the Net-geners (Kaye & Johnson, 2002).

Affection was the only strong predictor for the use of social networking sites. As the main use of these sites is communication among friends, it is logical that Net-geners would want to show affection on such sites. Besides, the recognition needs of Net-geners do affect their contributions to forums and blogs. Among the UGC platforms, personal web-pages provide the largest degree of freedom, but they also require the highest level of technical skill. Net-geners can showcase their artwork, design, and programming skills on their pages in order to gain respect from others.

Demographics were shown to have little effect on UGC production level among Net-geners. However, one interesting finding is that income level acts as a strong positive predictor of content generation in online review sites, such as restaurant reviews. This may mean that people with greater spending power have more consumption experience, or that they consider themselves superior and more qualified to comment. The “digital divide” between Net-geners is narrowing. The limited effect of demographics on participation in UGC showed that, as computer hardware and broadband are becoming more affordable, more Net-geners are turning to UGC to satisfy their social and psychological needs. The diversity of content that Net-geners can produce is also appealing to most members of this generation. Therefore, it is shown that Net-geners have fairly equal opportunities and interests in

contributing to UGC online.

5.2 Limitations and suggestions for future research

Although the U&G framework is, as expected, a set of well-established media use predictors, further research on this issue is worthy of consideration. For example, content analysis of UGC may help to further explain the limited amount of variance in the regression analyses. “Venting negative feelings” was one of motivation in this research; however, the examination of the expression of “positive” feelings is also important for the establishment of a comprehensive typology in the gratification of UGC on the internet. In addition, researchers in politics and marketing may be interested in identifying which UGC platforms contain more negative views, and studying the characteristics of the content on these platforms. Researchers might examine to what degree audiences of these platforms may be affected by the content. Future research may also study the extent to which Net-geners mobilize their friends online by UGC.

Mobile communication is not only an important aspect of technological trends in the 21st century, but it may also impact UGC (Hanson & Baldwin, 2007). The physical venues of producing UGC were not investigated in this research, so the relationship between UGC and mobile technology is worth exploring.

A number of limitations should be recognized in this study. First, this exploratory study employed snowball sampling, based in Hong Kong, and was biased toward university

educated, so generalization of the results to the global population may not be justified. It is suggested that future studies explore other settings to compare cultures. Second, this research was cross-sectional and only tested the relationships between variables. Follow-up research is recommended to investigate the causal relationships between these variables. Furthermore, the study asked respondents to self-report their perceived participation level in terms of time spent producing UGC. Future studies may evaluate the volume of content produced.

References

- Birdsall, W. (2007). Web 2.0 as a social movement. *Webology*, 4(2), Article 40.
- Brown, R., Budzek, K., & Tamborski, M. (2009). On the meaning and measure of narcissism. *Personality and Social Psychology Bulletin*, 35(7), 951-964.
- Buffardi, L., & Campbell, W. (2008). Narcissism and social networking web sites. *Personality and Social Psychology Bulletin*, 34(10), 1303-1314.
- Campbell, K. W., & Foster, J. D. (2007). The narcissistic self: Background, an extended agency model, and ongoing controversies. In C. Sedikides & S. Spencer (Eds.), *Frontiers in social psychology: The self* (pp. 115-138). Philadelphia, PA: Psychology Press.
- Cutler, N., & Danowski, J. (1980). Process gratification in aging cohorts. *Journalism Quarterly*, 57(2), 269-277.
- Dimmick, J., Kline, S., & Stafford, L. (2000). The gratification niches of personal E-mail and the telephone. *Communication Research*, 27(2), 227-224.
- Dunne, A., Lawlor, M., & Rowley, J. (2010). Young people's use of online social networking sites – a uses and gratifications perspective. *Journal of Research in Interactive Marketing*, 4(1), 46-58.

- Eighmey, J., & McCord, L. (1998). Adding value in the information age: Uses and gratifications of sites on the world wide web. *Journal of Business Research*, 41(3), 187-194.
- Fisher, C. (1993). Boredom at work: A neglected concept. *Human Relations*, 46(3), 395–417.
- Foster, J., & Campbell, W. (2007). Are there such things as "narcissists" in social psychology? A taxometric analysis of the narcissistic personality inventory. *Personality and Individual Differences*, 43, 1321–1332.
- Freud, S. (1914). *On narcissism: an introduction. Standard edition*, 14. London: Hogarth Press.
- Gillmor, D. (2004). *We the media: Grassroots journalism by the people, for the people*. Sebastopol, CA: O' Reilly Media.
- Grace-Farfaglia, P., Dekkers, A., Sundararajan, B., Peters, L., & Park, S. H. (2006). Multinational web uses and gratifications: Measuring the social impact of online community participation across national boundaries. *Electronic Commerce Research*, 6(1), 75-101.
- Hanson, J. ,& Baldwin, B. (2007). Mobile Culture: Podcasting as Public Media. In S. Kleinman (Ed.), *Displacing place: mobile communication in the twenty-first century*

(pp. 123-140). New York: Peter Lang.

Harrison, S. (2005). Y@Our library: What do millennials want? *Access*, 11(2), 21–23.

Retrieved from EBSCOhost.

Hennig-Thurau, T., Gwinner, K. P., Walsh, G., & Gremler, D. D. (2004). Electronic word-of-mouth via consumer-opinion platforms: What motivates consumers to articulate themselves on the internet? *Journal of Interactive Marketing*, 18(1), 38-52.

Hess, T., Rohrmeier, P., & Stoeckl, R. (2007, June). *Motivations to produce user generated content: Differences between webloggers and videobloggers*. Paper presented at the 20th Bled eConference eMergence: Merging and Emerging Technologies, Processes, and Institutions, Bled, Slovenia

Howe, N. & Strauss, W. (2000). *Millennials rising: The next great generation*. New York: Vintage Books.

Howe, N., & Strauss, W. (1992). *Generations: The history of America's future, 1584 to 2069*. New York: Harper Perennial.

Iso-Ahola, S. E. (1980). *Social psychological perspectives on leisure and recreation*. Dubuque, IA: Brown.

Iso-Ahola, S., & Weissinger, E. (1987). Leisure and boredom. *Journal of Social and Clinical Psychology*, 5(3), 356-364.

Johnson, T., & Kaye, B. (2003). Around the world wide web in 80 ways. *Social Science Computer Review*, 21(3), 304-325.

Katz, E., & Blumler, J. G. (1974). *The uses of mass communications: Current perspectives on gratifications research*. Beverley Hill, CA: Sage.

Katz, E., Blumler, J. G., & Gurevitch, M. (1973). Uses and gratifications research. *The Public Opinion Quarterly*, 37(4), 509-523.

Kaye, B., & Johnson, T. (2002). Online and in the know: Uses and gratifications of the Web for political information. *Journal of Broadcasting & Electronic Media*, 46(1), 54-71.

Kennedy, G., Dalgarno, B., Gray, K., Judd, T., Waycott, J., Bennett, S., Maton, K., Krause, K. L., Bishop, A., Chang, R., & Churchward, A. (2007, 2-5 December). *The net generation are not big users of web 2.0 technologies: Preliminary findings*. Paper presented at the ascilite Singapore 2007, Singapore.

Lampe, C., Wash, R., Velasquez, A., & Ozkaya, E. (2010). Motivations to participate in online communities. Retrieved April 1, 2010, from https://www.msu.edu/~lampecli/papers/pap1604_lampe.pdf

Leung, L. (2001). College student motives for chatting on ICQ. *New Media Society*, 3(4), 483-500.

- Leung, L. (2003). Impacts of net-generation attributes, seductive properties of the internet, and gratifications-obtained on internet use. *Telematics and Informatics*, 20(2), 107–129.
- Leung, L. (2009). User generated content on the internet: an examination of gratifications, civic engagement and psychological empowerment. *New Media & Society*, 11(8), 1327-1347.
- Leung, L. (2008). Leisure boredom, sensation seeking, self-esteem, addiction symptoms and patterns of mobile phone use. In E. Korini, S. Utz, M. Tanis, & S. Barnes (Eds.), *Mediated interpersonal communication* (pp. 359-381). New York: Routledge.
- Lin, C. (1999). Online service adoption likelihood. *Journal of Advertising Research*, 39, 79-89.
- Lin, C. H., Lin, S. L., & Wu, C. P. (2009). The effects of parental monitoring and leisure boredom on adolescents' Internet addiction. *Adolescence*, Dec 22.
- McCrindle, M. (2002). *Understanding generation Y*. Retrieved February 18, 2010, from www.mccrindle.com.au
- Oblinger, D., & Oblinger, J. (2005). Is it age or IT: First steps toward understanding the net generation. In D. Oblinger, & J. Oblinger (Eds.), *Educating the net generation* (pp. 10-29). Retrieved from EDUCAUSE e-book.

- Papacharissi, Z., & Rubin, A. (2000). Predictors of internet use. *Journal of Broadcasting and Electronic Media*, 44(2), 175-196.
- Park, N. (2010). Adoption and use of computer-based voice over internet protocol phone service: Toward an integrated model. *Journal of Communication*, 60(1), 40-72.
- Park, N., Kee, K., & Valenzuela, S. (2009). Being immersed in social networking environment: Facebook groups, uses and gratifications, and social outcomes. *CyberPsychology & Behavior*, 12(6), 729-733.
- Prensky, M. (2001). Digital natives, digital immigrants. *On the Horizon*, 9(5), 1-6.
- Raskin, R. & Terry, H. (1988). A principal-components analysis of the narcissistic personality inventory and further evidence of its construct validity. *Journal of Personality and Social Psychology*, 54(5), 890-902.
- Raskin, R., & Hall, C. (1979). A narcissistic personality inventory. *Psychological Reports*, 45(2), 590.
- Rosengren, K. E. (1976). Uses and gratifications: A paradigm outline. In G. Blumber, & E. Katz (Eds.), *The uses of mass communications* (pp. 135-165). Harmondsworth: Penguin.
- Ruggiero, T. (2000). Uses and gratifications theory in the 21st century. *Mass Communication*

& *Society*, 3(1), 3-37.

Stafford, M., & Stafford, T. (1996). Mechanical commercial avoidance: A uses and gratifications perspective. *Journal of Current Issues and Research in Advertising*, 18, 27-38.

Stafford, T., Stafford, M., & Schkade, L. (2004). Determining uses and gratifications for the internet. *Decision Sciences*, 35(2), 259-288.

Tapscott, D. (2009). *Grown up digital: How the net generation is changing your world*. New York: McGraw-Hill.

Tulgan, B., & Martin, C. A. (2001). *Managing generation Y: Global citizens born in the late seventies and early eighties*. Amherst, MA: HRD Press.

Twenge, J., Konrath, S., Foster, J., Campbell, W., & Bushman, B. (2008). Egos inflating over time: A cross-temporal meta-analysis of the narcissistic personality inventory. *Journal of Personality*, 76(4), 875-902.

Weiss, M. (2001). Online America. *American Demographics*, 23(3), 53-60.

Table 1. User-generated content online

User-Generated Content	Mean	SD
1. Social Networking (e.g., Facebook)	3.74	1.23
2. Video Sites (e.g., YouTube)	2.88	1.32
3. Blogs (e.g., Windows Live, Twitter)	2.75	1.22
4. Personal web-page	2.06	1.13
5. Forums	2.56	1.24
6. Online reviews (e.g., OpenRice, ESDLife)	2.19	1.15

Scale used: 1=never, 2=seldom, 3=neutral, 4=often, and 5=very often; (N=344)

Table 2. Net-geners' gratifications for producing UGC online

I generate content online...	Factors				Mean	SD
	1	2	3	4		
<i>Affection</i>						
1. To show others encouragement	.89				3.79	1.01
2. To let others know I care about their feelings	.83				3.71	1.03
3. Because I am concerned about others	.80				3.54	1.03
4. To help others	.79				3.57	1.03
5. To thank others	.75				3.75	.97
<i>Recognition needs</i>						
6. To build up my confidence		.77			2.80	1.00
7. To establish my personal identity		.75			3.02	1.13
8. To gain respect and support		.73			3.23	1.02
9. Because it is satisfying		.72			3.29	1.10
10. To promote or publicize my expertise		.67			3.11	1.06
<i>Inclusion</i>						
11. Because I need someone to talk to or be with			.86		3.13	1.03
12. Because I just need to talk about my problems sometimes			.85		3.30	1.04
13. To feel involved with what's going on with other people			.62		2.86	.96
14. To understand myself and others			.55		3.42	.97
<i>Venting Negative Feelings</i>						
15. To voice discontent				.82	3.39	1.03
16. To fight injustice				.78	3.22	1.03
17. Because someone hurt me and I wish to hurt him back				.70	2.36	1.08
18. To vent anger				.61	3.08	1.18
Eigenvalue	6.07	2.74	2.06	1.33		
Variance explained	30.35	13.71	10.31	6.65		
Cronbach's Alpha	.90	.83	.76	.74		

Scale used: 1=strongly disagree and 5=strongly agree; (N=344)

Table 3. Linear regression of demographics, gratifications, and Net-geners attributes on user-generated content

Predictors	Participation in User-Generated Content													
	Overall UGC (minutes/day)		Social networking		Video sites		Blogs		Personal web-page		Forums		Consumer Reviews	
	r	β	r	β	r	β	r	β	r	β	r	β	r	β
Demographics														
Gender (male=1)	-.05	.03	-.12*	-.05	-.02	-.02	-.10	-.07	-.12*	-.10	.10	.13*	-.11	-.08
Education	.11	.04	.14**	.07	.00	-.03	.04	.02	.01	.00	.00	.02	.16**	.10
Income	.09	.11*	.10	.08	.10	.12*	-.09	-.06	-.04	.00	-.04	-.01	.21***	.22***
Gratifications														
Affection	.15**	.16**	.26***	.22***	.03	.04	.09	.08	-.02	.00	.12*	-.07	.00	.02
Recognition	.21***	.18***	.03	-.01	-.01	-.01	.17***	.13*	.11*	.08	.12*	.11*	.09	.07
Inclusion	.25***	.24***	.06	.06	.02	.00	.09	.04	.21***	.14**	.22***	.21***	.16**	.12*
Vent negative feelings	.22***	.20***	.13*	.12*	.15**	.13*	.18***	.15**	.18***	.14**	.16**	.15**	.16**	.13*
Net-geners' attributes														
Leisure boredom	.07	.07	-.13*	-.13*	.06	.06	.09	.09	.23***	.23***	.22***	.22***	.19***	.19***
Narcissism	.19***	.11	.17***	.16**	.05	.04	.25***	.19***	.19***	.12*	.12*	.04	.06	.01
R^2		.20		.14		.04		.13		.14		.14		.15
Adjusted R^2		.18		.12		.01		.10		.12		.12		.13

* $p \leq .05$; ** $p \leq .01$; *** $p \leq .001$; (N=344)

Scale used: 1 = "never," 2 = "seldom," 3 = "neutral," 4 = "often," and 5 = "very often"

Table 4. Regressing gratifications sought on demographics and Net-geners' attributes

Predictors	Gratifications Sought							
	Affection		Recognition		Inclusion		Venting negative feelings	
	r	β	r	β	r	β	r	β
Demographics								
Gender (male=1)	-.13*	-.10	-.24	-.01	-.15**	-.16**	-.26	-.04
Education	.12*	.10	.13*	.13	-.03	-.56	-.02	-.05
Income	.01	-.04	-.01	-.02	-.06	-.34	.06	.10
Attributes								
Leisure boredom	-.23***	-.23***	.02	.01	.20***	.21***	.09	.09
Narcissism	.01	.03	.18***	.17**	.06	.04	.10	.11*
R^2		.08		.05		.07		.03
Adjusted R^2		.06		.04		.06		.02

* $p \leq .05$; ** $p \leq .01$; *** $p \leq .001$; (N=344)